

Programming Assignment 1: It's Elemental

Assignment Description

You've decided that Chemistry is an awesome field to explore. Since we recently celebrated the 150th anniversary of Mendeleev's periodic table of the elements, you decide to go look at the (current) periodic table of the elements. You're so excited by the beauty and elegance of that arrangement that you decide to print out the symbols for the first 10 elements in the periodic table of the elements.

PERIODIC TABLE OF ELEMENTS

1

H

Hydrogen

2

He

Helium

3

Li

Lithium

4

Be

Beryllium

11

Na

Sodium

12

Mg

Magnesium

19

K

Potassium

20

Ca

Calcium

27

Co

Cobalt

28

Ni

Nickel

37

Rb

Rubidium

38

Sr

Strontium

55

Cs

Cesium

56

Ba

Barium

87

Fr

Francium

88

Ra

Radium

1

H

Hydrogen

Nonmetal

Atomic Number

Symbol

Name

Chemical Group Block

5

B

Boron

6

C

Carbon

7

N

Nitrogen

8

O

Oxygen

9

F

Fluorine

13

Al

Aluminum

14

Si

Silicon

15

P

Phosphorus

16

S

Sulfur

17

Cl

Chlorine

31

Ga

Gallium

32

Ge

Germanium

33

As

Arsenic

34

Se

Selenium

35

Br

Bromine

81

Tl

Thallium

82

Pb

Lead

83

Bi

Bismuth

84

Po

Polonium

85

At

Astatine

113

Nh

Nihonium

114

Fl

Flerovium

115

Mc

Moscovium

116

Lv

Livermorium

117

Ts

Tennessine

118

Og

Oganesson

57

La

Lanthanum

58

Ce

Cerium

59

Pr

Praseodymium

60

Nd

Neodymium

61

Pm

Promethium

62

Sm

Samarium

63

Eu

Europium

64

Gd

Gadolinium

65

Tb

Terbium

66

Dy

Dysprosium

67

Ho

Holmium

68

Er

Erbium

69

Tm

Thulium

70

Yb

Ytterbium

71

Lu

Lutetium

89

Ac

Actinium

90

Th

Thorium

91

Pa

Protactinium

92

U

Uranium

93

Np

Neptunium

94

Pu

Plutonium

95

Am

Americium

96

Cm

Curium

97

Bk

Berkelium

98

Cf

Californium

99

Es

Einsteinium

100

Fm

Fermium

101

Md

Mendelevium

102

No

Nobelium

103

Lr

Lawrencium

Requirements

Your solution must do the following:

1. Print the symbol for each of the first 10 elements of the periodic table, with each symbol appearing on its own line in the output. Refer to the image of the periodic table above.
2. Do NOT print anything else in your output; if you do, you'll confuse the automated grader and you'll get a bad grade!

In case you're having a hard time understanding what your output should look like, here are the first 3 lines of required output (you'll have 10 lines of output):

```
H
He
Li
```

Running Your Code

Because of the code I included to work with the automated grader on Coursera, when you run your program the command prompt window will open and it will sit there doing nothing. To make your code run, type 1 and press the <Enter> key; your code should then run so you can check your output.

You can actually run your code again if you want to by typing 1 and pressing the <Enter> key again. When you're ready to stop running your code, type q (for quit).

Submit Your Work

1. Make a final test of your code and copy the output from the terminal window.
2. If you need to make any additional changes to your code, make sure you commit them.
3. By committing and pushing your updates to GitHub you have submitted your assignment on GitHub Classroom.
4. Return to CodeHS. Paste your output into the code window to complete the assignment.